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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/659,308	09/11/2003	Akira Kinno	242737US8	3587
22850	7590	06/20/2006	EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			OPARE ABETIA, JOSEPH C	
			ART UNIT	PAPER NUMBER
			2165	

DATE MAILED: 06/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/659,308

Applicant(s)

KINNO ET AL.

Examiner

Joseph C. Opare-Abetia

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 September 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 3/2/05
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Michel K. Bowman-Amuah (U.S. Patent No. 659396 and Bowman-Amuah hereinafter).

With respect to claims 1 and 2, Bowman-Amuah discloses a method comprising: a canonicalization process step of subjecting document data to a canonicalization process to correct fluctuation of expression (i.e., “*Once at the non-object system, interface code reads through the stream, parses the values off of the stream, converts them to the appropriate types if required, and puts them in a copybook with the appropriate structure.*”

Cannibalization is defined on answers.com, as is the process of converting data that has more than one possible representation into a "standard" canonical representation. The preceding text clearly indicates that the system convert and correct data into their standard form or appropriate structure)(col. 244 lines 46-49); an identifier generating step of generating an identifier uniquely specifying the document data or part thereof, based on all or part of the document data having been subjected to the canonicalization process in the

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canonicalization process step (i.e., *“An object identifier is generated containing information including the determination association which is necessary to retrieve the instance of the associated object from the database.”* The preceding text clearly indicates that an identifier generator is being implemented)(abstract); and an identity determining step of determining whether there is a common portion between one document data and another document data, based on the identifier having been generated in the identifier generating step (i.e., *“A location of the instance of the associated object on the database is determined from the object identifier and the instance of the associated object is retrieved from the database.”* The preceding text clearly indicates that there exist a device for determining the locations and other data that are associated with each other)(Abstract).

With respect to claim 3, Bowman-Amuah discloses a method comprising: an identifier generating step of, based on all or part of encoded data of document data, generating an identifier uniquely specifying the document data or part thereof (i.e., *“In operation 5410, when request is received which includes an identifier for one of the concrete objects and an identifier for the abstract interface. The map is consulted to locate the concrete object that has been identified in operation 5412. An abstract object is then created that corresponds to the located concrete object in operation 5414.”* The preceding text clearly indicates a system for determining object identifier that corresponds to other objects in the database)(col. 192 lines 45-51); and an identity determining step of determining whether there exists a common portion between one document data and another document

data, based on the identifier having been generated in the identifier generating step (see the explanation above).

With respect to claim 4, Bowman-Amuah discloses a method comprising: a canonicalization process step of subjecting document data to a canonicalization process to correct fluctuation of expression (i.e., *“Once at the non-object system, interface code reads through the stream, parses the values off of the stream, converts them to the appropriate types if required, and puts them in a copybook with the appropriate structure.”* **Cannibalization** is defined on answers.com, as is the process of converting data that has more than one possible representation into a "standard" canonical representation. The preceding text clearly indicates that the system convert and correct data into their standard form or appropriate structure)(col. 244 lines 46-49); an identifier generating step of generating an identifier uniquely specifying the document data or part thereof, based on all or part of the document data having been subjected to the canonicalization process in the canonicalization process step (i.e., *“An object identifier is generated containing information including the determination association which is necessary to retrieve the instance of the associated object from the database.”* The preceding text clearly indicates that an identifier generator is being implemented)(abstract); and an identifier transmitting step of transmitting the identifier having been generated in the identifier generating step (i.e., *“In order to successfully transmit a formatted message, both the sending and receiving systems must understand the format and structure of the transmitted information.”* The preceding text clearly indicates that

transmitting is than successfully when the data being transmitted correspond to another data)(col. 241 lines 64-66).

With respect to claims 5 and 9, Bowman-Amuah discloses a method for determining apparatus comprising: canonicalization process means for subjecting document data to a canonicalization process to correct fluctuation of expression (i.e., *“Once at the non-object system, interface code reads through the stream, parses the values off of the stream, converts them to the appropriate types if required, and puts them in a copybook with the appropriate structure.”* **Cannibalization** is defined on answers.com, as is the process of converting data that has more than one possible representation into a "standard" canonical representation. The preceding text clearly indicates that the system convert and correct data into their standard form or appropriate structure)(col. 244 lines 46-49); identifier generating means for generating an identifier uniquely specifying the document data or part thereof, based on all or part of the document data having been subjected to the canonicalization process by the canonicalization process means (i.e., *“An object identifier is generated containing information including the determination association which is necessary to retrieve the instance of the associated object from the database.”* The preceding text clearly indicates that an identifier generator is being implemented)(abstract); and identity determining means for determining whether there is a common portion between one document data and another document data, based on the identifier having been generated by the identifier generating means (i.e., *“A location of the instance of the associated object on the database is determined from the object identifier and the instance of the associated object is retrieved from*

the database.” The preceding text clearly indicates that there exist a device for determining the locations and other data that are associated with each other)(Abstract).

With respect to claims 6 and 10, Bowman-Amuah discloses a method wherein the canonicalization process means comprises type standardization process means for, using a class definition file of the document data describing a definition of a type, standardizing a type of expression for a value described in the document data, in accordance with the type defined by the class definition file (i.e., “*a business event controller class in a system must somehow specify the relationships between its relevant business components and the widgets which may interact with them on the application window.*” The preceding text clearly indicates that the system sets or specify a form which in my applicant’s case is a standard type of expression which defines and describe document data)(col. 186 lines 23-26).

With respect to claims 7 and 11, Bowman-Amuah discloses a method wherein the type standardization process means is configured to standardize an accuracy of numerical data described in the document data, in accordance with a definition of a type for numerical data described in the class definition file of the document data (i.e., “*In operation 6402, a plurality of constant names are provided with each constant name having a corresponding constant value. The constant names are grouped into constant-classes based on an entity, which the constant values represent in operation 6404. Access is allowed to the constant values in operation 6406 by receiving a call including the corresponding constant name*”

and corresponding constant class.” The preceding text clearly indicates that a standardize numerical data is described in the document)(col. 203 lines 3-11; fig. 64)

With respect to claims 8 and 12, Bowman-Amuah discloses a method wherein the canonicalization process means comprises document data generating means for transforming first partial data and second partial data into document data in accordance with a predetermined transformation rule (i.e., “*Tools like JavaDoc and Microsoft Word (which can transform documents into HTML) make it possible to leverage the web server's index server to locate artifacts.*” The preceding text clearly indicates that transforming of is being implemented in the system)(col. 181 lines 23-27).

With respect to claim 13, Bowman-Amuah discloses a method further comprising a cache preliminarily storing the identifier having been generated by the identifier generating means, in correlation with the document data or a result of a predetermined process on the document data, wherein the identity determining means is configured to: perform a search inside the cache on the basis of the identifier of the document data as a target for a determination on identity, which has been generated by the identifier generating means, determine that there exists identical document data, if the same identifier as the aforementioned identifier is present, and determine that there exists no identical document data, if the same identifier as the aforementioned identifier is absent

(Figure 171 clearly indicates the system is conducting a search by mapping objects in a database)(fig. 171).

With respect to claim 14, Bowman-Amuah discloses a method further comprising second identifier generating means for generating an identifier uniquely specifying the document data or part thereof, based on all or part of the document data, prior to execution of the canonicalization process by the canonicalization process means, wherein identity between one document data and another document data is determined on the basis of the identifier having been generated by the second identifier generating means and wherein if they are determined not to be identical, the canonicalization process means performs the canonicalization process of the document data (i.e., *“Once at the non-object system, interface code reads through the stream, parses the values off of the stream, converts them to the appropriate types if required, and puts them in a copybook with the appropriate structure.”* **Cannibalization** is defined on answers.com, as is the process of converting data that has more than one possible representation into a "standard" canonical representation. The preceding text clearly indicates that the system convert and correct data into their standard form or appropriate structure)(col. 244 lines 46-49)

With respect to claim 15, Bowman-Amuah discloses an identity determining apparatus comprising: identifier generating means for, based on all or part of encoded data of document data, generating an identifier uniquely specifying the document data or part thereof (i.e., *“An object identifier is generated containing information including the*

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determination association which is necessary to retrieve the instance of the associated object from the database.” The preceding text clearly indicates that an identifier generator is being implemented)(abstract); and identity determining means for determining whether there exists a common portion between one document data and another document data, based on the identifier having been generated by the identifier generating means (i.e., *“A location of the instance of the associated object on the database is determined from the object identifier and the instance of the associated object is retrieved from the database.”* The preceding text clearly indicates that there exist a device for determining the locations and other data that are associated with each other)(Abstract).

With respect to claim 16, Bowman-Amuah discloses an identity determining apparatus wherein an instruction to skip a process of decoding the encoded data of the document data is issued when the identity determining means determines that the two document data are identical (i.e., *“it possible for the user to jump from topic to topic instead of reading the document from beginning to end. For many types of applications, this can create a user-friendlier interface, enabling the user to find information faster.”* The preceding text clearly indicates that system implements the jump function, which is essentially the same as the skip function of data of related terms)(col. 46 lines 44-48).

With respect to claim 17, Bowman-Amuah discloses an identifier transmitting apparatus comprising: canonicalization process means for subjecting document data to a canonicalization process to correct fluctuation of expression (i.e., *“Once at the non-*

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object system, interface code reads through the stream, parses the values off of the stream, converts them to the appropriate types if required, and puts them in a copybook with the appropriate structure.” **Cannibalization** is defined on answers.com, as is the process of converting data that has more than one possible representation into a "standard" canonical representation. The preceding text clearly indicates that the system convert and correct data into their standard form or appropriate structure)(col. 244 lines 46-49); identifier generating means for generating an identifier uniquely specifying the document data or part thereof, based on all or part of the document data having been subjected to the canonicalization process by the canonicalization process means (i.e., *“An object identifier is generated containing information including the determination association which is necessary to retrieve the instance of the associated object from the database.”* The preceding text clearly indicates that an identifier generator is being implemented)(abstract); and identifier transmitting means for transmitting the identifier having been generated by the identifier generating means (i.e., *“A location of the instance of the associated object on the database is determined from the object identifier and the instance of the associated object is retrieved from the database.”* The preceding text clearly indicates that there exist devices for transmitting data that are associated with each other’s in a database)(Abstract).

With respect to claim 18, Bowman-Amuah discloses an identity transmitting apparatus wherein the identifier transmitting means comprises transmitted data generating means for generating data obtained by replacing all or part of the document data by the identifier (i.e., *“replace their worn-out, inefficient, and out-dated wheels with the*

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new ones, but only if the new ones offered, at a minimum, the same function (i.e., rolling) through the same interface.” The preceding text clearly indicates that replacement function is being implemented in the system therefore one skilled in the art can claim of replacing all or part of the document data by the identifier)(col. 126 lines 22-25)

With respect to claim 19, Bowman-Amuah discloses an identity transmitting apparatus wherein the transmitted data generating means is configured to generate transmitted data described by an identifier uniquely specifying partial data included in the document data, and difference data between the partial data and the document data (i.e., *“the transmitting of all data in a Data Structure 11900 from a client 11902 to a server 11904 and visa-versa...”*)The preceding text clearly indicates that the system is implementing the function of transmitting all data identified or requested)(col. 247 lines 5-17).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph C. Opare-Abetia whose telephone number is (571) 272-6594. The examiner can normally be reached on mon-fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JEFFREY A. GAFFIN can be reached on (571) 272-4146. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.


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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Joseph C. Opare-Abetia

Patent Examiner

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